

ABSTRACT

[00019] An adjustable gas nozzle has a nozzle body including a passageway therethrough opening into a first orifice at one end and an internal sealing surface adjacent thereto. A threaded internal surface is formed at a second end of the nozzle body. A conduit connected to a source of gas at one end having external threads adjacent a second end is threadably receivable within the second end of the nozzle body and is moveable between the first and second alternative positions relative to the nozzle body. Integral radial ribs are formed externally about the conduit between the external threads and the second end of the conduit and are engageable with the internal surface of said nozzle body between the sealing surface and the threads. The radial ribs on the exterior of the conduit have a larger diameter than the internal diameter of the interior wall of the nozzle body and is of a harder material so that deformation occurs in the wall resulting in a tight seal when the nozzle and the conduit are coupled. A flow adjusting member is supported within the conduit and is moveable toward and away from the orifice of the nozzle body as the nozzle body is threadably moved about the conduit. The adjustment member has an interior passageway which communicates the conduit with the orifice of the nozzle body and has an external surface for cooperatively engaging the sealing surface of the nozzle body in one alternative position and is spaced therefrom in a second alternative position. The flow of gas through the nozzle body orifice varies depending upon which alternative position is selected.